ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Maintenance of Toilet in Ward No.06, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	10	10	100%
TOTAL	**10**	**10**	**100%**

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Maintenance of Toilet in Ward No.06, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c)Aggregate 40MM d)Aggregate 20MM e)Sand Plastering	2.52	Cum	5	5	100%
2)Cube M20	4.29	Cum	2	2	100%
3)Bricks - Compressive Strength	5.06	Sqm	1	1	100%
4)Steel-10,12MM	0.24	Tonne	2	2	100%
TOTAL			10	10	100%

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/CEMENT/2021-22

Date: 07.04.2021

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop.Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Cement
Sample Received on	:	05.04.2021
Period of Testing	:	05.04.2021 to 07.04.2021
Report Issue Date	:	07.04.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/SAND-Gradation/2021-22 — 07.04.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri.P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	05.04.2021
Date of Testing	:	07.04.2021
Report Issue Date	:	07.04.2021

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.90	90-100	90-100	90-100	95-100
2.36	78.70	60-95	75-100	85-100	95-100
1.18	65.30	30-70	55-90	75-100	90-100
600 Micron	43.50	15-34	35-59	60-79	80-100
300 Micron	20.90	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/AGG/GR/2021-22 — 07.04.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	05.04.2021
Date of Testing	:	07.04.2021
Report Issue Date	:	07.04.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	39.28	30-70	0-20
10	16.72	10-35	0-5
4.75	3.52	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-176j/AGG/GR/2021-22 — 07.04.2021

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	05.04.2021
Date of Testing	:	07.04.2021
Report Issue Date	:	07.04.2021

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	95.84	90-100	85-100
10	36.68	25-55	0-20
4.75	3.28	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/SC/W.No.06/Steel/2021-22

09.04.2021

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	09.04.2021
Report Issue Date	:	09.04.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.20	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SC/W.No.06/Steel/2021-22 09.04.2021

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Samples ID	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	09.04.2021
Report Issue Date	:	09.04.2021

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	561	13.30	O.K	O.K

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/Bricks/2021-22 16.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF BRICKS

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Bricks
Test Method As Per	:	IS - 3495 (Part-1) :1992 (RA-2016)
Sample Received on	:	09.04.2021
Date of Testing	:	16.04.2021
Report Issue Date	:	16.04.2021

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation As per IS: 1077:1992 (RA-2016)
1	220x100x75	3452.56	123.2	5.60	5.54	5.0
2	220x100x75	3456.96	121.8	5.54		
3	220x100x75	3462.52	123.9	5.63		
4	220x100x75	3489.52	120.3	5.47		
5	220x100x75	3426.36	119.8	5.45		

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/Cube/2021-22 14.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of the work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Sump Raft Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.05.2021
Report Issue Date	:	14.05.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.04.2021	14.05.2021	8.129	495.5	22.02
2	16.04.2021	14.05.2021	8.256	515.7	22.92
3	16.04.2021	14.05.2021	8.325	526.9	23.42

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/Cube/2021-22

31.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of the work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
* Sample ID	:	Sump Roof Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	31.05.2021
Report Issue Date	:	31.05.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.05.2021	31.05.2021	8.119	478.5	21.27
2	03.05.2021	31.05.2021	8.280	490.3	21.79
3	03.05.2021	31.05.2021	8.320	512.2	22.76

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Building & Highway Material Testing Laboratory

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SC/W.No.06/CSR-78n/SAND-Gradation/2021-22 13.05.2021

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Soorya Creators** (Prop. Sri. P.Hemanth), No.109/110, 4th Cross Road, Balaji Layout, Bangalore – 94.
* Name of Work	:	Maintenance of Toilet in Ward No.06, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/207/2020-21 Dated: 08.03.2021
*Sample ID	:	Sand For Plastering
Test Method As Per	:	IS - 1542 : 1992 (RA-2019)
Sample Received on	:	12.05.2021
Date of Testing	:	13.05.2021
Report Issue Date	:	13.05.2021

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specification Limits as per IS : 1542 - 1992 (RA-2019)
10	100	100
4.75	98.50	95-100
2.36	97.50	95-100
1.18	94.00	90-100
600 Micron	87.20	80-100
300 Micron	43.40	20-65
150 Micron	10.90	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

ಮುಖ್ಯ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

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